Omar Quispe Vargas

Software Engineer · AI Agents · Web3 · Information Security

La Paz, Bolivia (UTC-4) · quispevargasomar@gmail.com · omidev.vercel.app · github.com/OmarQV · linkedin.com/in/omar-quispe-vargas-7b5601204 · x.com/OmarQV2025

SUMMARY

Software engineer building verifiable systems at the intersection of AI agents, Web3 and information security. Two-time hackathon first-place winner with 35+ hackathons and builder programs since 2025, shipping end-to-end products under hard deadlines: agent payments (x402), blockchain forensics and on-chain applications. Final-year Informatics student in the Information Security track at UMSA.

AWARDS & RECOGNITION

- **1st place — Ethereum Bolivia Buildathon 2026** — Real World Applications / HSK Chain track, Cochabamba (Vector52).
- **1st place — CochaBlock Challenge: Destino Devconnect 2025** — AIni Pay; trip to Devconnect Argentina.
- **Tier 2 Contributor — Stellar Ambassador Program (2026)** — Contributor recognition; selected for the Stellar Elite bootcamp.
- **Aspire Institute (2026)** — Program completed with certificate.

SELECTED PROJECTS

Vector52 — blockchain forensics

2026 · Next.js, TypeScript, Avalanche, x402, Reown, MCP, Supabase · github.com/OmarQV/vector52

- Turns a public address into a graph of inflows, outflows and counterparties with verifiable evidence; an AI agent explains findings and investigations are paid per request with x402.
- 1st place at Ethereum Bolivia Buildathon 2026; evolved into Vector52 Capsule for ETHOnline 2026.

Pay-per-Thought — auditable AI reasoning on Arc

2026 · Arc, Circle Nanopayments, x402, EIP-712, Vyper, Gemini · github.com/OmarQV/Pay-per-Thought

- Agents pay each reasoning step in USDC via signed EIP-712 intents across 100+ x402 endpoints; 111 verified on-chain transactions and a verified Reputation.vy contract.

AIni Pay — crypto payments in natural language

2025 · React, TypeScript, Celestia, Rollkit, Reown, LLM · github.com/AIni-Pay

- Conversational assistant that extracts address, asset and amount, validates them and executes transactions on EVM chains and a Celestia rollup. 1st place at CochaBlock 2025.

Nova Registry Agent & Nova Bazaar — agent commerce on Stellar

2026 · Stellar, Soroban, x402, MPP, Claude, Prisma, Next.js

- Autonomous agent that negotiates and pays HTTP 402 challenges to register AI-generated music; marketplace of paid microservices for agents with a TypeScript SDK.

AndesMaaS 3.0 — citizen mobility oracles for La Paz

2026 · Stellar, Soroban, React, geolocation · andesmaas-3-0.vercel.app

- Commit-reveal reports with proof of location and token rewards via Soroban smart contracts.

Also: ENSVault (ENS-based DeFi strategy vaults, ETHGlobal HackMoney), FlowPay Sync (WhatsApp payment links), Kredentia (Avalanche credentials), Cocadena (supply-chain traceability), ExpoVia (trade-fair platform, FIPAZ 2026 pilot).

EDUCATION

B.Sc. Informatics — Information Security track, Universidad Mayor de San Andrés (UMSA), La Paz · 8th semester, in progress

- Coursework: Cryptography I–II, Ethical Hacking I, Network Security I–II, Malware & Targeted Threats, Digital Forensics, Database Security; currently Risk Management, Information Asset Management and Systems Auditing.
- Former teaching assistant, Web Programming II (UMSA). Also trained in public accounting.

COMMUNITY

- Co-organizer, Aleph Hackathon La Paz chapter and the Vercel hackathon at UMSA; active in Bolivia's developer and Web3 communities through workshops and hackathon teams.

SKILLS

AI & agents	Python, LangGraph, MCP, tool calling, x402 agent payments, Claude / Gemini APIs
Blockchain	Solidity, Vyper, Soroban, Foundry, Hardhat, EVM, Avalanche, Stellar, Wagmi, Viem
Web & mobile	TypeScript, React, Next.js, Node.js, FastAPI, Expo / React Native, Flutter, Supabase, PostgreSQL
Security	Threat modeling, digital and on-chain forensics, smart-contract review, Nmap, Burp, CTF practice (eJPT path)